










ATMOS








EQUITHERMAL CONTROLLER ATMOS ACD 03

(prices valid from 1st January 2023)












| Set name | Code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|---|--------------|-----------------------------|-----------------------------------|
| EQUITHERMAL CONTROLLER SET ATMOS ACD 03 - recommended for pellet boilers (without flue gas sensor) | S0103 | 14.710,70 | 17.800,- |
| EQUITHERMAL CONTROLLER SET ATMOS ACD 03 AGF - recommended for boilers with manual loading (with flue gas sensor) | S0106 | 16.611,60 | 20.100,- |

| Set contains / name | Production name | Amount in set | Measuring range | Cable length |
|--|--------------------|------------------|--------------------|-----------------|
| Equithermal controller with touch screen and relay module - complete (A + B)  | ATMOS ACD 03 | 1 | - | - |
| Connector set  | SCS34 | 1 | - | - |
| Outdoor temperatur sensor (AF) - wire  | AF20-B65 | 1 | -40... +70 | 0 m |
| Boiler temperature sensor (WF) - silicon  | KTF20-65-2M | 1 | -20... +110 | 2 m |
| Heating system contact sensor (VF) - wire - PVC  | SF20-B54 | 3 | 0... +110 | 4 m |
| DHW sensor (SF) Accumulation tank sensor (PF/FPF) - PVC  | KTF20-65-5M-B | 3 | -20... +110 | 5 m |
| Flue gass sensor for boiler control (AGF) (only in the set ACD 03 AGF)  | AGF3 | 1 | 0... +400 | 2 m |














| Set name | Code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|--------------|-----------------------------|-----------------------------------|
| EQUITHERMAL CONTROLLER SET ATMOS ACD 03 AGF WIFI - recommended for all boiler types - wireless communication (ATMOS WIFI GATE 1000) of controller ACD03 with external devices (computer, mobile phone) and for communication of controller ACD03 / 04 with wireless ATMOS devices (room units, sensors) in the building - with flue gas sensor AGF3 - with wireless outdoor sensor ATMOS AFW | S0108 | | PREPARING |

| Set contains / name | Production name | Amount in set | Measuring range | Cable lenght |
|---|----------------------|---------------|-----------------|--------------|
| Equithermal controller with touch screen and relay module - complete (A + B)  | ATMOS ACD 03 | 1 | - | - |
| Connector set  | SCS34 | 1 | - | - |
| Outdoor temperatur sensor (AF) - wire  | ATMOS AFW | 1 | -40... +70 | 0 m |
| Boiler temperature sensor (WF) - silicon  | KTF20-65-2M | 1 | -20... +110 | 2 m |
| Heating system contact sensor (VF) - wire - PVC  | SF20-B54 | 3 | 0... +110 | 4 m |
| DHW sensor (SF) Accumulation tank sensor (PF/FPF) - PVC  | KTF20-65-5M-B | 3 | -20... +110 | 5 m |
| Flue gass sensor for boiler control (AGF)  | AGF3 | 1 | 0... +400 | 2 m |
| Wireless ethernet / Wi-Fi gate ATMOS WIFI GATE 1000 (only in the set ACD 03 AGF WIFI) | ATMOS WIFI GATE 1000 | 1 | - | - |

OPTIONAL ACCESSORIES FOR CONTROLLER ATMOS ACD 03 / ACD 04

| Name | | Production name Order code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|---|---|--|-----------------------------|-----------------------------------|
| Equithermal controller with touch screen and relay module - complete (A + B with connectors) - separate |  | ATMOS ACD 03 code: P0466 | 12.057,90 | 14.590,- |
| Connector set - for controller ATMOS ACD 03/04 |  | SCS34 code: S0105 | 1.198,30 | 1.450,- |
| Room unit (sensor) - passive room temperature sensor - for wire connection - for all controllers ACD 03/04 |  | ATMOS ARU5 code: P0471 | 1.314,00 | 1.590,- |
| Room unit (sensor) - passive room temperature sensor - for wireless and wired connection - for all controllers ACD 03/04 - power supply - 2x alcalic battery AA |  | ATMOS ARU5W code: P0472 | PREPARING | |
| Room unit without screan - for wire connection - pro všechny regulace ACD 03/04 |  | ATMOS ARU10 code: P0473 | 2.562,00 | 3.100,- |
| Room unit without screan - for wireless and wired connection - for all controllers ACD 03/04 - power supply - 2x alcalic battery AA |  | ATMOS ARU10W code: P0474 | PREPARING | |
| Room unit with touch screen - for wire connection - for all controllers ACD 03/04 |  | ATMOS ARU30 code: P0475 | 5.743,80 | 6.950,- |
| Room unit with touch screen - for wireless and wired connection - for all controllers ACD 03/04 |  | ATMOS ARU30W code: P0476 | PŘIPRAVUJEME | |
| ATTENTION - To connect second and third ARU30 room units or wireless ARU30W room units is necessary to buy 12 V DE06-12 or MEAN WELL GS06E-3P1J 12 V power supply | | | | |
| POWER SUPPLY 12 V DE06-12 - room unit power supply ARU30(W) (into the KU 68 box on the wall) |  | DE06-12 code: P0488 | 380,20 | 460,- |
| MEAN WELL GS06E-3P1J - ARU30(W) room unit addapter (power supply) (in to socket on the wall 230V/50Hz) |  | MEAN WELL GS06E-3P1J code: P0484 | 326,40 | 395,- |
| Box for fitting ACD03 controller on the wall - metal (white or dark grey version) |  | ATMOS SWS 18 code: P0483 - white code: P0486 - d. grey | 3.223,10 | 3.900,- |
| Wireless ethernet / Wi-Fi gate ATMOS WIFI GATE 1000 - for communication of controller ACD03/04 with external devices (computer, mobile phone) and in the building (room units, sensors) | | ATMOS WIFI GATE 1000 code: P0481 | PREPARING | |



OPTIONAL ACCESSORIES FOR CONTROLLER ATMOS ACD 01 / ACD 03 / ACD 04

| Name | Production name Order code | Cable length | Measur. range | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|-------------------------------------|----------------------|------------------|-----------------------------|-----------------------------------|
| Outdoor temperatur sensor (AF) - wire  | AF20-B65 code: P0409 | 0 m | -40... +70 | 795,00 | 962,- |
| Outdoor temperatur sensor (AF) - wireless (only for ACD 03 /04 with WR 500 or WIFI GATE 1000)  | ATMOS AFW code: P0470 | 0 m | -40... +70 | PREPARING | |
| Boiler temperature sensor (WF) - silicon  | KTF20-65-2M code: P0410 | 2 m | -20... +110 | 404,10 | 489,- |
| DHW sensor (SF) Accumulation tank sensor (PF) - PVC  | KTF20-65-5M-B code: P0431 | 5 m | -20... +110 | 482,60 | 584,- |
| Heating system contact sensor (VF) - without cable  | SF20-B54 code: P0411 | 0 m | 0... +110 | 723,10 | 875,- |
| Heating system contact sensor (VF) - with cable - PVC  | SF20-B54 code: P0417 | 4 m | 0... +110 | 729,80 | 883,- |
| Flue gass sensor for boiler control (AGF)  | AGF3 code: P0413 | 2 m | 0... +400 | 2.250,40 | 2.723,- |
| Solar panel sensor and a waste gasses sensor for boiler controlling (AGF)  | VFF00-75P65 code: P0414 | 2,5 m | -20... +300 | 1.493,40 | 1.807,- |
| PVC screened wire - twin core cable (sensors, units - SDW10/20, AFW, ARU5(W))  | code: S0636 | price for 1 meter | - | 12,40 | 15,- |
| PVC screened wire - twin core cable (sensors, units - SDW10, 20, AFW, ARU5(W))  | code: S0637 | price for 1 meter | - | 105,00 | 127,- |
| PVC screened wire - four core cable (2x2x0,8) (unites ARU10(W)/30(W))  | code: S0659 | price for 1 meter | - | 35,50 | 43,- |
| Spiral wrapper for joindering cables  | code: S0270 | price for 1 meter | - | 13,20 | 16,- |
| Cavity with tin for connection of conductors (extension of sensors,  | code: P0445 | - | - | 19,80 | 24,- |





ACD 03 / ACD 04 ACCESORIES AND SPARE PARTS

| Name and type | Code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|--------------|---------------------------------------|-----------------------------|
| ATMOS GT 100 - ARU30 / ARU30W room unite power supply (into the box KU 68 - 230V / 50Hz on the wall) with one output relay 230V / 50Hz - device enables direct (ON / OFF) boiler control via ARU30 / ARU30W room unit (function of classic room thermostat) | P0477 | in the sale from not specified | |
| ATMOS GT 300 - ARU30 / ARU30W power supply / room unit module (in a plastic box on the wall) with four 230V / 50Hz relays, the device allows direct (wired) control of one heating circuit (actuator + pump + heat sources) via ARU30 / ARU30W room unit (equithermal controller function) - the source is equipped with five temperature inputs (boiler temperature WF + sensor of heating system VF + upper sensor of accumulation tank PF + lower sensor of accumulation tank KSPF + outdoor sensor AF) | P0478 | in the sale from not specified | |
| Equithermal controller with touch screen ATMOS ACD 03A - without relay module - with connectors | P0463 | 9.421,50 | 11.400,- |
| Equithermal controller with touch screen ATMOS ACD 04A - without relay module - with connectors | P0464 | 9.256,20 | 11.200,- |
| Relay module for controller ATMOS ACD 03/04-B - with connectors | P0465 | 2.636,40 | 3.190,- |
| ASF 2018 sensor set (P0409 - 1 pc, P0417 - 3 pcs, P0410 - 1 pc, P0431 - 3 pcs) (without flue gas sensor and with outdoor sensor AF20-B54 (B65)) | P0461 | 4.837,20 | 5.853,- |
| AGSF 2018 sensor set (P0413 - 1 pc, P0409 - 1 pc, P0417 - 3 pcs, P0410 - 1 pc, P0431 - 3 pcs) (with flue gas sensor AGF3 and with outdoor sensor AF20-B54 (B65)) | P0468 | 7.087,60 | 8.576,- |
| ASFW 2018 sensor set (P0417 - 3 pcs, P0410 - 1 pc, P0431 - 3 pcs) (without flue gas sensor and without outdoor sensor) | P0462 | 4.042,10 | 4.891,- |
| AGSFW 2018 sensor set (P0413 - 1 pc, P0417 - 3 pcs, P0410 - 1 pc, P0431 - 3 pcs) (with flue gas sensor AGF3 and without outdoor sensor) | P0469 | 6.292,60 | 7.614,- |





SERVO-ACTUATORS FOR MIXING VALVES AND ACCESSORIES

| Name and type | Input W | Voltage V/Hz | Code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|---------|--------------|--------------|-----------------------|-----------------------------|
| Actuator ESBE ARA 651 - 60 s - threepins (boiler circuit)  | 2 | 230/50 | P0517 | 3.181,80 | 3.850,- |
| Actuator ESBE ARA 661 - 120 s - threepins (system circuit)  | 2 | 230/50 | P0415 | 3.181,80 | 3.850,- |
| Actuator BELIMO HR230-3-T - 140 s - threepins – only for valves BELIMO | 3,5 | 230/50 | P0423 | 2.115,70 | 2.560,- |
| Actuator BELIMO HT230-3-T - 140 s - threepins (necessary to buy mounting set) | 3,5 | 230/50 | P0424 | 2.028,90 | 2.455,- |
| Mounting set WNR used for actuators BELIMO HT230-3-T for mixing valve BELIMO – necessary accessories | | | P0425 | 219,80 | 266,- |
| Mounting set MS-NRE used for actuators BELIMO HT230-3-T or mixing valve ESBE | | | P0426 | 167,80 | 203,- |

OPTIONAL ACCESSORIES FOR CONTROLLER ATMOS ACD 01 (clearance sale)
(SENSORS AND OTHER ACCESSORIES IDENTICAL WITH ACD 03 / ACD 04)

| Name | | Production name Order code | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|---|-------------------------------|-----------------------------|-----------------------------------|
| Connecting terminal block |  | SCS34 code: P0405 | 2.401,70 | 2.906,- |
| Room regulation unit without display - for all ACD01 controllers |  | SDW 10 code: P0406 | 3.435,50 | 4.157,- |
| Room regulation unit with display - for regulator version 3.0 a 3.3 |  | SDW 20 code: P0407 | 5.892,60 | 7.130,- |
| Box with connecting terminal block for fitting on the wall |  | SWS 12 code: P0408 | 3.206,60 | 3.880,- |

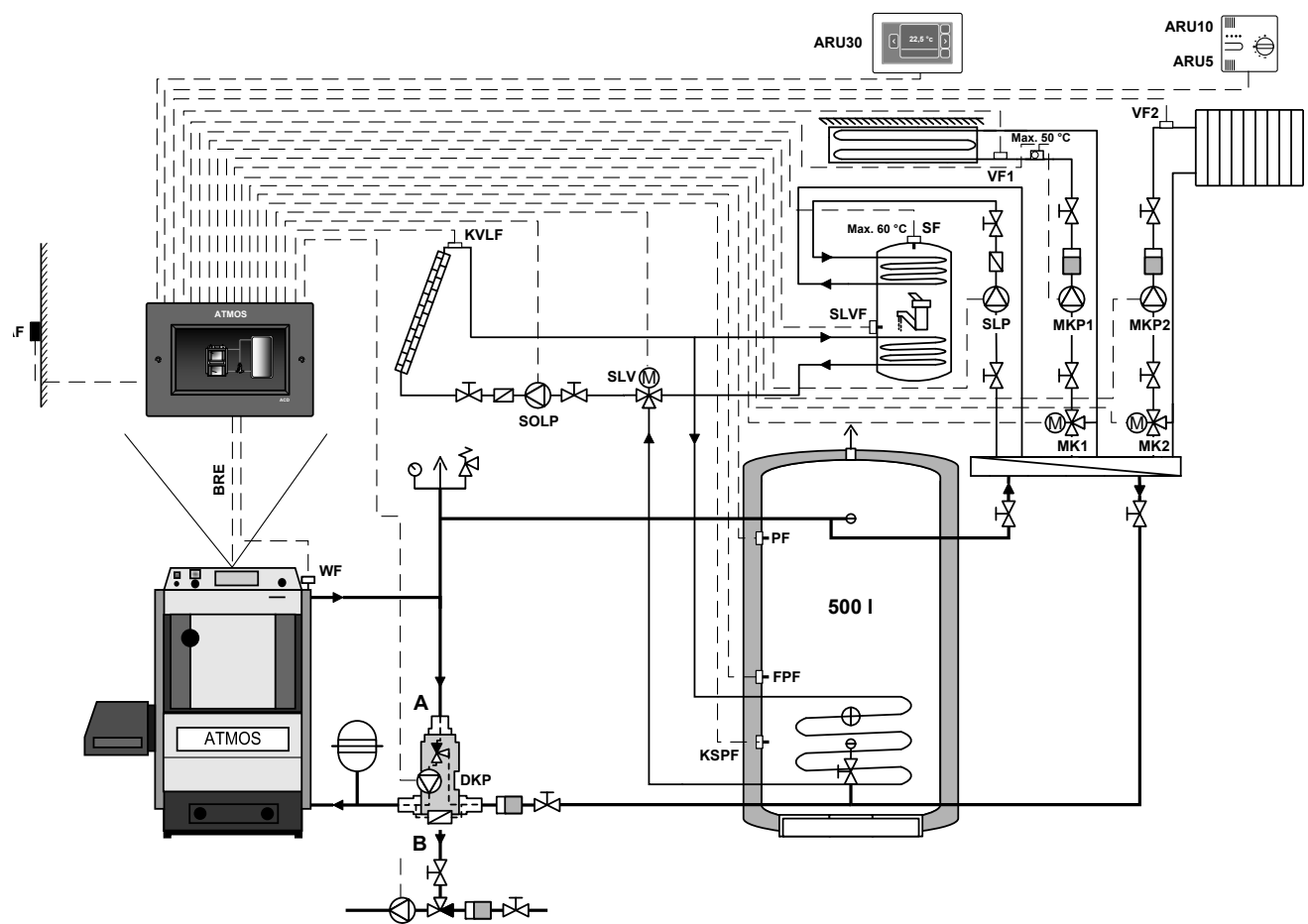
OPTIONAL ACCESSORIES FOR GSM MODUL ATMOS AB01 (clearance sale)
(SENSORS AND OTHER ACCESSORIES IDENTICAL WITH ACD 03 / ACD 04)

| Name | | Production name | Cable lenght | Measur. range | Price exc. VAT in CZK | Prices inc. 21 % VAT in CZK |
|--|---|------------------------------|--------------|---------------|-----------------------------|-----------------------------------|
| Communication adapter GSM/PC - USB>RS232 |  | - code: P0434 | 1,5 m | - | 1.277,20 | 1.545,- |
| External antenna GSM Adhesiv T25, SMA(m) |  | - code: P0438 | 3 m | 2,5 dB | 184,30 | 223,- |
| External antenna GSM Adhesiv 25, SMA(m) |  | RG174U code: P0439 | 3 m | 2,5 dB | 184,30 | 223,- |
| Directive antenna GSM YAGI 120, Dual-band |  | FME code: P0440 | 10 m | 12 dB | 879,30 | 1.064,- |

Sampel of connection with ATMOS ACD 03/04 controller

- controlled pellet boiler with burner connected with accumulation tank (500 l) and solar system

Hydraulic diagram: 27533



2xxxx (BRE - boiler with burner) + x7xxx (DKP+DHW+ACC) + xx5xx (SOL) + xxx3x (MK2) + xxxx3 (MK1)

| | |
|--|---|
| Boiler: D14P - automatic pellet boiler (controlled) | Boiler circuit: DKP boiler circuit pump (Laddomat pump) |
| Accumulation tank: YES (500 l with heat exchanger for solar) | Domestic hot water: YES (e.g. tank 160 l - with two heat exchangers) |
| Heating circuits: 2 mixed equithermal (MK) | Solar heating: YES (switching between the DHW tank and the accumulation tank) |

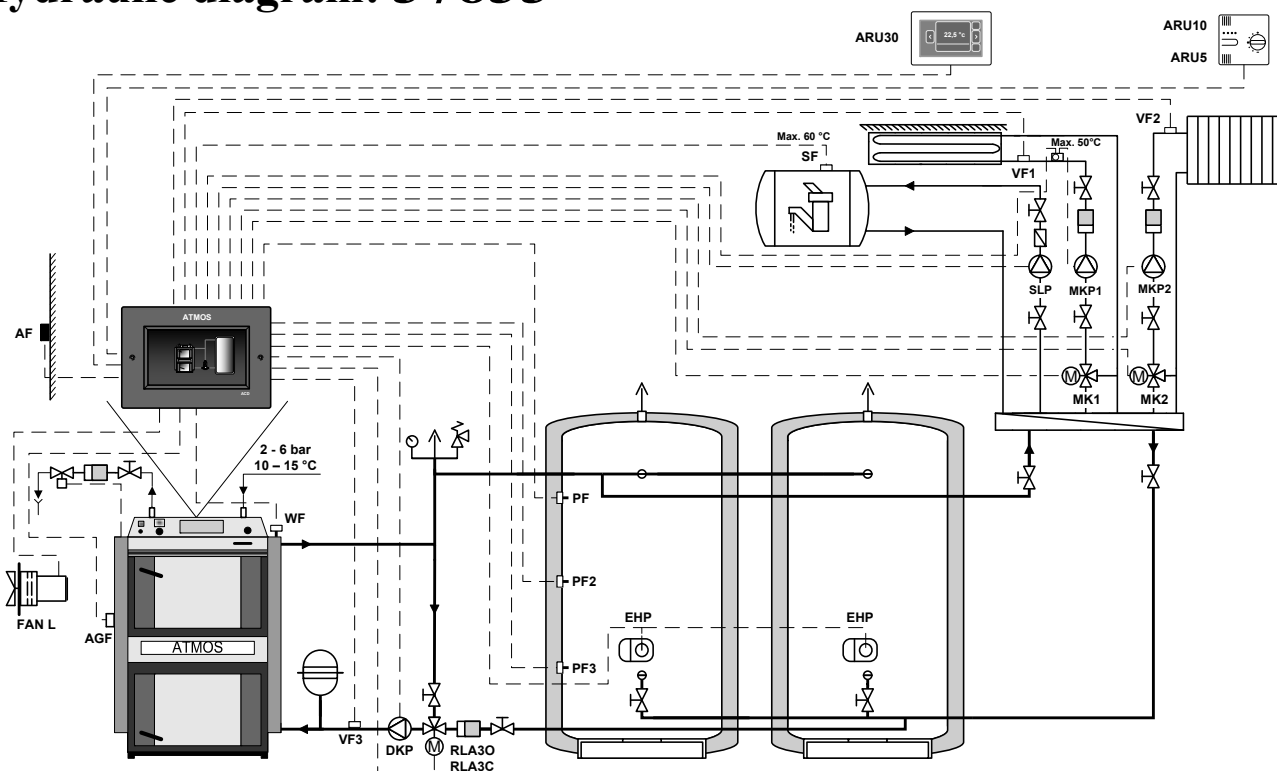
ATMOS ACD 03 equithermal controller set (code: S0103) + room unite with touch screen ARU30 (code: 0475) + room unite without screen ARU10 (code: P0473) + solar panel sensor - VFF00-75P65 (-20... +300) (code: P0414) + 2x temperature sensor - KTF20-65-5M-B (-20... +110) (code: P0431)

Automatic pellet boiler controlled by the controller based on two sensors on the accumulation (buffer) tank (PF and FPF).

The ACD 03/04 controller allows the burner operation (BRE) to be switched on and off as required by the operator (for example when cleaning the boiler). It controls the operation of the pump in the boiler circuit (DKP) (Laddomat / thermoregulation valve), two heating circuits (MK1, MK2), the accumulation tank (boiler) for DHW heating (SLP) and solar system (SOLP+ solar switch between ACC and DHW (KSPF and SLV/SLVF)).

Sampel of connection with ATMOS ACD 03/04 controller - controlled pellet boiler connected with two accumulation tanks

Hydraulic diagram: 37833



3xxxx (controlled boiler) + x7xxx (DKP+DHW+ACC) + xx8xx (RLA3) + xxx3x (MK2) + xxxx3 (MK1)

| | |
|---|---|
| Boiler: DC25S - gasification boiler (controlled) | Boiler circuit: DKP boiler circuit pump + controlled return to the RLA boiler on circuit 3 |
| Accumulation tank: YES (2x 750 l) | Domestic hot water: YES (e.g. standard tank 160 l) |
| Heating circuits: 2 mixed equithermal (MK) | External heating: YES (electric heating EHP) |

ATMOS ACD 03 AGF equithermal controller set (code: S0106) + room unite with touch screen **ARU30** (code: 0475) + room unite without screen **ARU10** (code: P0473) + temperature sensor - **KTF20-65-5M-B** (-20... +110) (code: P0431)

Boiler controlled by the controller based on the boiler temperature (WF sensor) and flue gas temperature (AGF sensor).

The ACD 03/04 controller controls boiler operation (fan - FAN / PRESS), the boiler circuit pump (DKP), temperature of return water to boiler (RLA), two heating circuits (MK1, MK2), charging and discharge of accumulation tanks and the tank (boiler) for DHW heating (SLP).



INFO - PF2 and PF3 sensors serve only to provide information on the accumulation tank temperature.

Jaroslav Cankar a syn ATMOS
Velenskéého 487, Bělá pod Bezdězem
294 21, Czech Republic



www.atmos.eu

Tel.: +420 326 701 404
Tel.: +420 326 701 414
e-mail: prodej@atmos.cz